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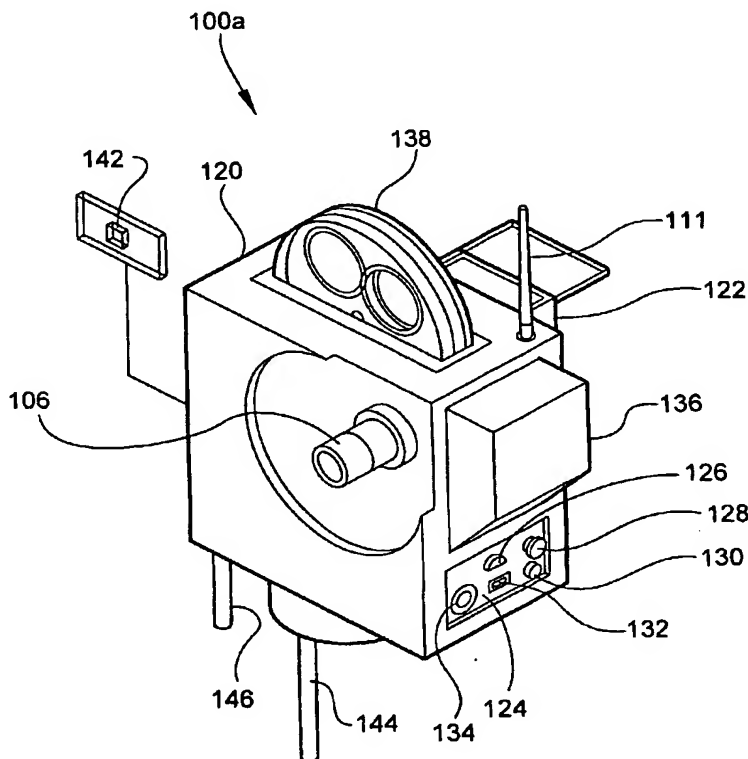
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[Continued on next page]

(54) Title: SYSTEM AND METHOD FOR RAPIDLY IDENTIFYING PATHOGENS, BACTERIA AND ABNORMAL CELLS



(57) Abstract: The present invention achieves rapid identification of pathogens, bacteria, cancer cells and other abnormal human and animal cells. In one embodiment, the system of the present invention comprises a first subsystem that obtains and processes images of specimens of pathogens, bacteria, and other abnormal cells, and a second subsystem that accepts the images, isolates the particular features of the image using advanced image segmentation, and then rapidly and accurately identifies the pathogens, bacteria and other abnormal cells by using a pattern recognition process wherein the segmented or isolated features of the original image are compared to known reference images.



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INTERNATIONAL SEARCH REPORT

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PCT/US04/09172

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : C12Q 1/04, 1/02; C12M 1/34, 3/00

US CL : 435/34, 29, 287.1, 288.7

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
WEST

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5,742,700 A (YOON et al) 21 April 1998 (21.04.1998), see entire document.	1-8, 10-23
Y		9, 24-26
Y	US 5,627,907 A (Gur et al) 06 May 1997 (06.05.1997), see entire document.	1-26
Y	US 2002/0165837 A (ZHANG et al) 07 November 2002 (07.11.2002), see entire document.	1-26

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

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